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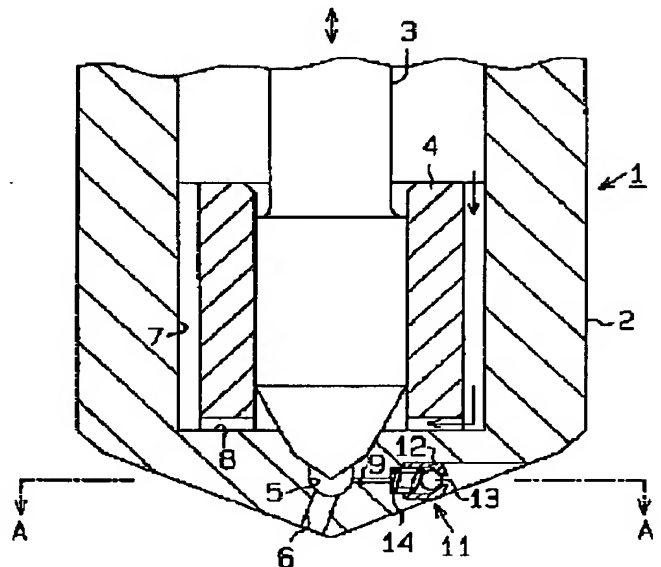
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TITLE : FUEL INJECTION VALVE



ABSTRACT : PURPOSE: To prevent generation of a deposit by restraining fuel from staying in a sack hole.

CONSTITUTION: A fuel injection valve 1 is provided with a valve seat 2, a nozzle needle 3 and a swirl collar 4. A sack hole 5 and a nozzle port 6 are formed in a bottom part of the valve seat 2. A communicating passage 9 to communicate a separate sack hole 5 with an external part is formed in the bottom part of the valve seat 2. A check valve 11 is arranged in the middle of this communicating passage 9. When the nozzle needle 3 upward moves, fuel is atomized and injected from the nozzle port 6 through a fuel passage 7, a swirl passage 8 and the sack hole 5. At this time, the inside of the sack hole 5 is put in a positive pressure condition, and the check valve 11 is not opened. On the other hand, the nozzle needle 3 comes into contact with the valve seat 2, and when injection is stopped, since the upstream of the sack hole 5 is put in a reduced pressure condition, the check valve 11 is opened. Then, the reduced pressure condition is released, and the fuel in the sack hole 5 is all injected.

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